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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,978	12/09/2003	Jui-Ming Yeh	BHT-3244-13	2215
75	90 12/11/2006		EXAM	INER
TROXELL LAW OFFICE PLLC SUITE 1404			· DANIELS, MATTHEW J	
5205 LEESBURG PIKE			ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22041			1732	

DATE MAILED: 12/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/729,978	YEH ET AL.				
Office Action Summary	Examiner	Art Unit .				
	Matthew J. Daniels	1732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1) Responsive to communication(s) filed on 01 De	1)⊠ Responsive to communication(s) filed on <u>01 December 2006</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	•—					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) <u>1-5 and 8-10</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>6 and 7</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SR/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:						

Application/Control Number: 10/729,978

Art Unit: 1732

### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election of Group III, Claims 6 and 7 in the reply filed on 1 December 2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Wang (Polymer Degradation and Stability, Vol. 77 (2002) pages 423-426). As to Claim 6, Wang teaches an ABS nano-metric composite material, comprising:

an amount of ABS substrate (page 425, Table I, ABS loading); and

a laminate oleophilic reformative clay (sections 2.1 and 2.2, pages 423-424);

wherein molecules of the AB S substrate extend into the laminate structure to connect tightly with the laminate oleophilic reformative clay (See Fig. 2, page 425); and

wherein the laminate oleophilic reformative clay is applied with a weight ratio of about 3-7% to be contained in the ABS nano-metric composite material (5%, section 2.3 on page 424).

Application/Control Number: 10/729,978

Art Unit: 1732

As to Claim 7, an ABS nano-metric composite material wherein the laminate oleophilic reformative clay is produced by reforming smectite clay with alkyl ammonium halogenated salt (section 2.1, page 423, see hexadecyl trimethylammonium bromide).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Daniels whose telephone number is (571) 272-2450. The examiner can normally be reached on Monday - Friday, 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MJD 12/7/06

CHRISTINA JOHNSON SUPERVISORY PATENT EXAMINER